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Part Hart Land 12

1	1.	An apparatus comprising:
2	a first	integrated circuit mounted in a first package, the first package having a first set
3		of electrical contacts and a first connector; and
4	a seco	nd integrated circuit mounted in a second package, the second package having a
5		second set of electrical contacts and a second connector, the second connector
6		being electrically and physically coupled to the first connector, the first and
7		second connectors being mating connectors.
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1	2.	The apparatus as recited in claim 1 wherein the first set of electrical contacts
	are disposed on a first surface of the package and the first connector is disposed on a second	
3.	surface of the	package.

- are disposed on a first surface of the package and the first connector is disposed on a second surface of the package.
- 3. The apparatus as recited in claim 2 wherein the second set of electrical contacts and the second connector are disposed on a same surface of the second package.
- 4. The apparatus as recited in claim 3 wherein the second set of electrical contacts are coupled to a printed circuit board through an intermediate connector.
- 1 5. The apparatus as recited in claim 4 wherein the intermediate connector is a 2 socket.
- 1 6. The apparatus as recited in claim 1 wherein the first and second connectors are 2 male/female connectors.
- 1 7. The apparatus as recited in claim 1 wherein the first and second mating 2 connectors are electrically coupled via press fit connections.
- 1 8. The apparatus as recited in claim 1 wherein the first and second connectors 2 are removably coupled.

16. The method as recited in claim 15 wherein the second package is electrically coupled to the printed circuit board.

electrically connecting the first integrated circuit through a first package connector to a second integrated circuit mounted in a second package having a second

package connector, wherein the first and second package connectors are

mating connectors.

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- 1 17. The method as recited in claim 15 wherein the first and second package 2 connectors are slidably engaged.
- 1 18. The method as recited in claim 15 wherein the second package connector is 2 electrically coupled to the first package connector via a solderless connection.
- 19. The method as recited in claim 15 further comprising sending high speed 2 signals over the first package connector and sending lower speed signals over the first set of 3 electrical connectors.
 - 20. An integrated circuit assembly comprising:
 - first means for electrically coupling a packaged integrated circuit to a printed circuit board;
 - second means for directly electrically coupling the packaged integrated circuit to a second packaged integrated circuit without coupling through a printed circuit board.
 - 21. The integrated circuit assembly as recited in claim 20 wherein the first and second means are located on a first surface of the packaged integrated circuit.
- 22. 1 The integrated circuit assembly as recited in claim 20 wherein the first and 2 second means are located respectfully on a first and second surface of the packaged integrated circuit. 3
- 1 23. The integrated circuit assembly as recited in claim 20 wherein the second 2 means for directly electrically coupling couples standard interface signals between the first 3 and second packaged integrated circuit.
- 1 24. A package assembly including an integrated circuit package for an integrated 2 circuit die, comprising:
- 3 a first set of electrical contacts for coupling to a printed circuit board; and

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- a connector disposed on a surface of the package for coupling to a mating connector
 on another integrated circuit package.
 - 25. The package assembly as recited in claim 24 wherein the first set of electrical contacts and the connector are mounted on a bottom surface of the integrated circuit package.
 - 26. The package assembly as recited in claim 24 wherein the first set of electrical contacts and the connector are mounted on opposite surfaces of the integrated circuit package.
 - 27. The package assembly as recited in claim 24 wherein the first set of electrical contacts couple to the printed circuit board through a socket.